

$-(\text{CH}_2\text{CH}_2\text{O})_\alpha-(\text{CH}_2)_\beta\text{Br}$; $-(\text{CH}_2\text{CH}_2\text{O})_\alpha-(\text{CH}_2)_\beta\text{I}$; $-(\text{CH}_2\text{CH}_2\text{O})_\alpha-(\text{CH}_2)_\beta\text{-Phenyl}$; aryl groups; fused aromatic rings; polymerizable functionalities;

$\text{R}_{\text{g}1}$, $\text{R}_{\text{g}2}$, and $\text{R}_{\text{g}3}$ are independently selected from: H; a linear or branched alkyl group with up to 25 carbons; a functional group derived from an amino acid; or a polypeptide; adenine; guanine; tyrosine; cytosine; uracil; biotin; ferrocene, ruthenocene, cyanuric chloride and derivatives thereof or methacryloyl chloride.

IN THE SPECIFICATION:

Please amend the specification as follows:

Page 1, line 16, after "This application" please insert --is a divisional application of U.S. Application No. 08/965,945, filed November 7, 1997, now U.S. Patent No. 6,267,913 and--.

Page 7, line 1, please insert --*indicates the point of attachment to the π -conjugated bridge.--.

Page 9, line 13, please insert --a molecular fragment--after "molecule".

Page 9, line 27, delete "of" and insert --or--.

Page 10, line 25, delete "That is, subsequent" and replace with --Subsequent--.

Page 11, line 3 please insert --stilbene, diphenylpolyene, phenylene vinylene oligomers, and related--before "molecules".

Page 11, line 7, please insert --unsubstituted--before "stilbene".

Page 11, line 8, please insert --respectively--after "molecules".

Page 11, line 29, please delete "placing" and replace with --the occurrence of--.

Page 12, line 7, please delete "placing" and replace with --the occurrence of--.

Page 12, line 16, please insert --fluorescent--before "emitters".

Page 14, line 22, please insert --two-dimensional or three-dimensional--after "multi-photon".

Page 15, line 25, please delete "a "before" multi-photon absorbing dye" and replace with --the--.

Page 16, line 6, please delete "a "before" multi-photon absorbing dye" and replace with --the--.

Page 16, line 21, please delete "In addition," and replace with --Additional--.

Page 18, line 11, please insert --organic and aqueous-- before "solution".

Page 20, line 8, please insert --and d_{1/e^2} is the full width of the beam where the intensity is $1/e^2$ times the peak intensity-- after "where".

Page 21, line 19, please insert --,-- after "group".

Page 22, line 1, please insert --,-- after "group".

Page 22, line 4, please delete "Ri" and replace with $-R_i$ --.

Page 22, line 9, please insert $---(\text{CH}_2\text{CH}_2\text{O})_\alpha-(\text{CH}_2)_\beta\text{CO}_2\text{R}_{\alpha 1}$; --after "carbons;".

Page 22, line 14, please insert --attached through a linkage which can be chosen from a linear or branched alkyl chain with up to 25 carbons, various aryl groups, $(\text{CH}_2\text{CH}_2\text{O})_\alpha-\text{CH}_2)_\beta$ -, and $-(\text{CH}_2\text{CH}_2\text{O})_\alpha-(\text{CH}_2)_\beta\text{CO}_2$ -- after "functionalities".

Page 24, line 19, please insert $---(\text{CH}_2\text{CH}_2\text{O})_\alpha-(\text{CH}_2)_\beta\text{CO}_2\text{R}_{a1}$ --after "carbons;".

Page 24, line 26, delete "as defined" and replace with --defined as--.

Page 27, line 6, please insert $---(\text{CH}_2\text{CH}_2\text{O})_\alpha-(\text{CH}_2)_\beta\text{CO}_2\text{R}_{a1}$ --after "carbons;".

Page 31, line 8, please insert $---(\text{CH}_2\text{CH}_2\text{O})_\alpha-(\text{CH}_2)_\beta\text{CO}_2\text{R}_{a1}$ --after "carbons;".

Page 32, line 4, please insert --properties--after "absorption".

Page 33, line 6, please delete "In addition, the" and replace with --The--.

Page 33, line 7, please insert --to effect the multiphoton absorption--after "radiation".

Page 54, line 10, please delete "of" after "remove".

Page 70, line 12, after "11.8%", please insert --;--.

Page 73, line 1, after "N, N-dimethylformamide/water", please insert --,--.

Page 76, line 1, before "hydrobromic", please insert --to--.

Page 76, line 25, after "cis", please replace "ans" with --and--.

Page 79, line 17, after "yield", please replace 1,4-bis(β -cyano-4'-diphenylaminostyryl)benzene" with --1,4-bis(β -cyano-4'-diphenylaminostyryl)benzene--.

Page 90, line 4, please delete "69" and insert --55--.

Page 91, line 9, please insert --effective--before "two-photon".

Page 91, line 10, please insert --larger--before "than".

Page 91, line 12, please insert --Effective--before "Two-photon" and please delete "Two" and insert --two--.

Page 98, line 7, please delete "for example" and replace with --and--.

Page 110, line 10, please delete "in situ" and replace with --in vivo--.

Page 116, line 1, please insert --,-- after "pulses".

Page 116, line 6, please replace "Secondly," with --Thirdly,--.

Page 119, lines 11-12, after "with", please replace "1-(di-4-n-butylaminophenyl)-10-(4-dimethylaminophenyl)deca 1,3,5,7,9-pentaene" with --1-(di-4-n-butylaminophenyl)-10-(4-dimethylaminophenyl)-deca-1,3,5,7,9-pentane--.

Page 116, line 18 , please insert --By "mesoscopic phases," we refer to materials with structural order on a length scale between that of individual molecules, i.e., above about 10 Angstroms, and the microscopic length scale, i.e., above about one micrometer. These materials include small molecule and polymeric liquid crystals, colloidal, micellar and liposomal suspensions, self assembled nanoparticle arrays, and the like.-- after "gases."

IN THE ABSTRACT:

Please amend the application to include an abstract as follows:

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